

## **PROVIDING**

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling
   Services

April 7, 2000 Project No. 97664V3

Ms. Brenda Pohlmann Nevada Division of Environmental Protection 555 E. Washington, Suite 4300 Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on March 29, 2000 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 870 micrograms per Liter ( $\mu g/L$ ). The NEL report is included with this letter, along with the Perchlorate Summary Table for 2000.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Daniel C. Burns, C.E.M.\*

#1692 (Expires 10/07/2001)

aniel C. Burs

Project Manager

Gregory P. DeSart, P.E., C.E.M. #1172 (Expires 12/22/2000)

President

\* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

dir

Enc: 20

2000 Perchlorate Summary Table

**NEL Analytical Report** 

Dist:

1 faxed to addressee at 486-2863 1 original mailed to addressee

cc: fax to Jeff Gibson, American Pacific Corporation

cc: mail to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105

cc: to project file 97664V3

7560 W. Sahara Ave., Suite 101 Las Vegas, NV 89117 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com

## Las Vegas Wash at Northshore Road Bridge 2000 Summary of Perchlorate Concentrations

Date Sampled	Perchlorate (μg/L)
1/27/00	569
2/28/00	720
3/29/00	870

## **NEL LABORATORIES**

Reno · Las Vegas Phoenix . So. California

Las Vegas Division 4208 Arcata Way, Suite A • Las Vegas, NV 89030 (702) 657-1010 · Fax: (702) 657-1577 1-888-368-3282



CLIENT:

Geotechnical & Env. Serv.

7560 West Sahara Ave. #101

Las Vegas, NV 89117

ATTN:

Dan Burns

PROJECT NAME:

FPF/97664 V3

PROJECT NUMBER: 97664 V3

NEL ORDER ID: L0003295

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 3/29/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.

van Wagenen Laboratory Manager

Reno

Las Vegas S. California Reno Certified

California

Arizona

2002

2264

Certified

Certified Certified

Certified

Certified

Montana Nevada L.A.C.S.D.

NV033

NV052

10228

CERTIFICATIONS:

Las Vegas S. California AZ0520 AZ0518 AZ0605 1707

Idaho

CA084

US Army Corps of Engineers

**NEL LABORATORIES** 

CLIENT:

Geotechnical & Env. Serv.

PROJECT ID: PROJECT #:

97664 V3

FPF/97664 V3

CLIENT ID:

North Shore Road Bridge

DATE SAMPLED: 3/29/00

NEL SAMPLE ID: L0003295-01

TEST:

**Inorganic Non-Metals** 

MATRIX:

Aqueous

REPORTING

**PARAMETER** 

RESULT 870

LIMIT 40.

D. F.

**METHOD** 

UNITS

ANALYZED

Perchlorate

10

CA DHSM - IC

 $\mu g/L$ 

3/31/00

D.F. - Dilution Factor

ND - Not Detected

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**NEL LABORATORIES** 

CLIENT:

Geotechnical & Env. Serv.

PROJECT ID: PROJECT #:

FPF/97664 V3 97664 V3

CLIENT ID:

Method Blank

DATE SAMPLED: NA

NEL SAMPLE ID: 000331CLO4-BLK

TEST:

Non-Metals

REPORTING

RESULT

LIMIT

D. F.

**METHOD** 

UNITS

<u>ANALYZED</u>

Perchiorate

PARAMETER

ND

CA DHSM - IC

 $\mu g/L$ 

3/31/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

Kickway (	Heimquished by (Primit)		Time/Date Sampled	Las Vegas Division • (702) 657-1011  GES  Company Address:  Address:  Address:  Hone Number:  Billing Address:	
The lightlifted NEL Laboratories for its limited strictly better of sample analysis for those samples received in good condition by NEL NEL is not responsible for loss, demande, resampling costs and/or qualified data related to samples not received in good condition.	(Signature)	Y N None	Roal Bridge	Las Vegas Division · 4208 Arcata Way, Ste. A · Las Vegas, NV 89030 (702) 657-1010 · FAX: (702) 657-1577 · 1-868-368-3282  Company Company Company Address:  About 1 Allow Ave, 7810  Address:  About 1 Allow Ave, 7810  Fax Number: 720  Billing Address:  Fax Number: 2 Allow Ave, 7810  Expected Turnstround: X 5-day 2-day 1-day  Requested Turnstround: X 5-day 2-day 1-day	NEL LABORATORIES  Reno · Las Vegas  Phoenix · So. California
1/29/00 1/2-/	Date/Time	27	# of Co  Matrix Presen	Ontainers  (Box #1)  vative (Box #2)	
AUA FOTEV	HECEWARD BY (Print)	11		Analysis  Analysis	CHAIN OF CUSTODY
age, resumphing cooks and/or qualified d	(Signature)	SD - Solid AQ - Aqueones A - Air		Sampled By: A	NEL Work Order:
14 Mex D (6	Date/Time	A HCI	Remarks	Cooke	Work Order: 10003295

aboratory after 16.30 will be considered received on the next working day. Commitment of laboratory to the requested furner ound time will be confirmed via Sample Confirmation transmitted to the fax number provided above.